



MARSHALL STAR

Serving the Marshall Space Flight Center Community

March 21, 2002

Emergency Operations Center team keep eyes on the skies

Peter Allen: Marshall's 'Mr. Emergency'

by Jonathan Baggs

Peter W. "Pete" Allen saw twisting spirals of red, yellow and green with every sweep of the weather radar on his monitor screen.

Volunteer storm spotters across the Marshall Center were calling in reports. It was almost 4 p.m. Tornadoes were reported touching down less than 20 miles west of Marshall. Allen double-checked the eyewitness information with the data on banks of computers and monitors. He had to make a decision that would affect the lives of more than 6,500 people. And he had to do it quickly.

That storm occurred about five years ago, but

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Peter Allen issues emergency warnings to Marshall employees when severe weather threatens.

Photo by Emmett Given, NASA/Marshall Space Flight Center

'Take our children to work day' promises learning experiences

Marshall team members can help make a difference in a child's life during "Take Our Children to Work Day" April 25 at the Marshall Center.

It's been an annual Center event since 1994 to promote education and awareness in area children through exposure to the space program and its career opportunities. All children of Marshall team members in grades 3-12 are encouraged to participate.

"I hope you will take advantage of

this great learning experience by bringing a child in your life to Marshall and sharing with them what your work is all about," Center Director Art Stephenson said. "I encourage you to get excited and participate in making a difference. It will be a great experience for both you and the child."

During the day, NASA engineers and scientists will conduct various workshops. They will explain how space travel works,

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making safety decisions is Allen's everyday-job. Nicknamed "Mr. Emergency," he is Marshall Center's director of emergency management – a post he's held since 1997. Allen, formerly manager of the Facilities Engineering Department, now is helping establish the Integrated Customer Support Department. It includes integration of the facilities management, logistics, information technology management, Protective Services and environmental engineering functions.

Allen's responsibilities at the Marshall Center include "basically any event that requires an emergency response," he said. "I make sure this Center has a sharp emergency management response program."

Marshall is home to many rocket scientists and engineers conducting research – designing ways to do things that have never been done. In their work, emergencies do occur: chemicals can react in unexpected ways; fires may erupt.

But Allen's profile is raised when severe weather threatens – be it snow and ice which may shut down the Marshall Center, or severe weather such as tornadoes that can immediately threaten the safety of the people who work here.

When threatening weather is forecast, Allen and members of his team gather in the Emergency Operations Center – a series of bunker-like basement rooms in a Marshall building. There, phone banks are lined up on a conference table, flanked by evacuation maps on the walls. Television monitors are not only tuned to local weather, but also give closed-circuit views of Marshall. Computers with flickering radar screens complete the scene. Then there's the microphone – used to broadcast instructions Center-wide to employees. It could be called Allen's personal ground zero.

"You're dealing with peoples' lives," "We tend to make decisions on the conservative side because of that."

Pete Allen

Quick Facts

Peter Allen began his career at Marshall in 1987 and was named deputy emergency management director in 1995. A native of Auburn, he graduated from Auburn University in 1979 with a bachelor's degree in mechanical engineering. He earned a master's in management from the Florida Institute of Technology, Melbourne, Fla., in 1992. In 2001, he was selected as a NASA Fellowship recipient and completed the program, "Leading with Impact: Linking People, Strategy, Results," at Pennsylvania State University.

Making decisions based on weather is a so you have to be careful," Allen said. no-win situation, said Allen. "We always get criticism on whatever decision we make," he said, referring particularly to snow and ice situations.

About two years ago, 2-4 inches of snow was predicted here. Allen was up at 2:30 a.m. monitoring the weather front moving in from Mississippi. The snow was headed straight for the city by 5 a.m. He had to make a recommendation to the Center's director on whether to close Marshall in time for employees to receive the information before heading to work.

"Decatur had snow," Allen said, "so we made the decision to close the Center. But the snow stopped at the Madison County line. People later asked me, 'Why did you shut the Center down?' It really came down to our Marshall Center Values – we don't want to put people in harm's way."

Sometimes Allen doesn't close the center and receives comments from employees who live outside of Madison County who tell him that it was hazardous where they live.

"That may be true, but we have to base our decision on where the majority of our employees live – and 80 percent live in Madison County," Allen said. "Chances are if the roads in Madison County are open,

But Allen doesn't want employees taking chances and that's why there is a liberal leave policy for those in outlying

then Marshall will open."

areas – allowing employees to take leave without prior authorization.

Now with severe weather season arriving – when thunderstorms can produce tornadoes or winds of immense force — Allen said all Marshall team members need to be aware of weather situations that can develop rapidly.

Since that day several years ago when tornadoes threatened Marshall, Allen's team has gone through many drills. That day, he said, was the most serious his team has faced. "We had evacuated everybody to their protective areas. We had reports of tornadoes at the Redstone (Arsenal) borders."

One of the protective areas where employees gathered was outside the doors to the Emergency Operations Center. It was loud in the hallway, filled with people, some constantly knocking on the door wanting information.

"We were dealing with a lot of touchdowns," Allen said. "Then, all of a sudden, it was quite outside the door."

When he checked, Allen discovered the hallways empty – everyone had left. "The danger was still there but people ignored the danger and left."

That told Allen he has to ensure employees receive regular updates. "We now will come on the Emergency Warning System every 15 minutes with updates."

No employee was injured during the ordeal.

"One of your goals in any emergency situation is to minimize loss of life," Allen said. "Fortunately, I haven't had to deal with that scenario."

Allen said he relies on the Emergency Operations team, and they deserve the credit for helping make Marshall a safe place to work.

It's a strong, cohesive, well-trained and well-functioning team," he said. "Ultimately, they are the ones that make all of our emergency management activities successful."

The writer, employed by ASRI, is the editor of the Marshall Star.



Alexander Nikolayevich Kuznetsov, left, deputy general director of the Russian Aviation and Space Agency, received a welcome plaque from Marshall Center Director Art Stephenson during a March 14 visit.

Photo by Doug Stoffer, NASA/Marshall Space Flight Center

NASA inspector general steps down

From NASA Office of Inspector General

Roberta L. Gross resigned as NASA inspector general effective March 3. Nominated by President Clinton, she was confirmed by the U.S. Senate on Aug. 11, 1995.

Under her leadership, the inspector general's office performed audits, investigations and inspections to combat crime, fraud, waste, abuse and mismanagement. She assisted NASA management in promoting economy, efficiency and effectiveness in the agency's programs and operations.

Gross was the first inspector general to initiate a computer crimes unit. She also led government-wide efforts to improve implementation of the Government Information Security Reform Act and the Presidential Decision Directive on Critical Infrastructure Protection.

ENERGY TIP OF THE WEEK

Explaining insulation R-value

R-value is the measure of the thermal resistance of a material. Thermal resistance is a measure of a materials' resistance to the flow of heat. It can be measured by measuring the thermal conductivity of a material.

R-value is the reciprocal of thermal conductivity, expressed as the quantity of heat (BTUs), which will flow through a 1-inch thick, 1-square foot section of a building material, during one hour when there is a 1-degree Fahrenheit difference between the hot-to-cold side temperatures.

The higher the R-value, the better the resistance to the flow of heat. In other words, the best insulation has the highest R-value.

If you have an energy tip that you would like to share with the Marshall Star readers, send it to:

cedreck.davis@msfc.nasa.gov or
juergen.haukohl@msfc.nasa.gov

NASA publication brings space technology down to Earth

NASA news release

One of the most important byproducts of aerospace exploration and research is finding ways to apply these cutting-edge technologies to life here on Earth. Many of the conveniences people take for granted today were first developed by NASA.

The latest agency innovations are now featured in the 2001 issue of Spinoff. A new video enhancement tool and a non-invasive heart monitor are just a couple of the agency's nearly 50 commercialized products featured.

In addition to highlighting new commercial products benefiting from NASA technology, Spinoff revisits past innovations in a special millennium feature-section.

Since 1976, Spinoff has showcased more than 1,300 public benefits of NASA's commercial partnerships with

private industry. The publication also covers the agency's research and development activities and serves as a reference resource to the agency's commercial technology network.

The 2001 Spinoff describes the latest products in the areas of health and medicine, transportation, public safety, computer technology, manufacturing technology, consumer/home/recreation, and environment and resources management.

Online versions of Spinoff are available. Companies interested in featuring their products in Spinoff or anyone wishing to request the latest issue can find contact information on the Web site.

Additional information about the NASA Technology network and an online version of Spinoff are available at:

<http://www.sti.nasa.gov/tto/>
or
<http://www.nctn.hq.nasa.gov/>

Annual Marshall retiree banquet takes

Blast from the past on station MSFC

The Marshall Center's 16th annual dinner honoring retirees was held March 14 at the Von Braun Center. Marshall team members performed a comedy and music routine based on a fictitious radio station where a host of 1940s stars just happen to drop by for the evening.



Jack Robertson, the fill-in disc jockey for the evening introduces another star appearing on "MSFC Radio."



Marcellus Smith has the style down for his portrayal of Louis Armstrong.

Photos by Doug Stoffer, NASA/Marshall Space Flight Center



David Jeffreys plays nephew "Al and his one-man band."



Bob Jaques and Betty Humphery perform an old-time radio sales pitch for "Cleanomatic Vacuum Cleaners."



The Ken Watters Group performs the national anthem.

audience back to the 'good ol' days'



Ladd Lewis croons during his impersonation of Frank Sinatra.



Marshall Director Art Stephenson welcomes the retirees to annual banquet



Nita Draper performs as Ella Fitzgerald.



From left, Sharon Hancock, Tiffany Fossett and Linda Law as "The Andrews Sisters."



Bob Sackheim plays psychiatrist "Dr. Edward Sleazycough."



Jack Robertson and Jim Frees, right, playing MSFC station manager, have a comedic "safety moment" during the skit.

Take

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and discuss the International Space Station. A career forum will highlight the fields of study that can lead to working for the space program. Scientists also will describe how NASA satellites provide new insights into understanding the Earth's environment.

Tours of Marshall facilities, such as the Microgravity Development Laboratory and Payload Operations & Control Center, will be available.

Children's lunches of hotdogs, hamburgers or chicken fingers will cost \$3.

The deadline to register a child for the workshops and tours is April 19. The deadline to order a T-shirt is March 29.

Visit the Web at: <http://>

Inside.msfc.nasa.gov/CHILDREN/ to register a child, order a T-shirt or to view the day's activity schedules and information.

O'Keefe signs proclamation

March: Women's History Month

NASA Administrator Sean O'Keefe recently signed a proclamation recognizing March as Women's History Month.

The theme for 2002 is "Women Sustaining the American Spirit." American women of every culture, class and ethnic background have made historic contributions to the growth and strength of the United States.

"They have paved the way for a larger sense of possibility in the America of the 21st Century," O'Keefe said. "Within the NASA community, we are particularly proud of the women who have contributed to the American spirit. From astronauts to technicians, scientists to secretaries, and engineers to lawyers, they have stood at the forefront ... keeping the American spirit alive."

O'Keefe also urged all NASA team members to "pause to celebrate the spirit of American women" in our communities.

Information technology security training available on SOLAR Web site

Information technology training is an annual requirement for all civil service and contractor employees using government computers. Training modules are on the SOLAR Web site at <https://solar.msfc.nasa.gov/>. Training must be completed by June 30. Civil service managers and supervisors should complete the "IT Security for Managers 2002." All other employees should complete "Basic IT Security 2002."

Space Shuttle gets new lift for April 4 launch; new, safer engines to power Atlantis

Marshall news release

A safer Space Shuttle Atlantis will feature three new, more robust engines when it launches April 4 on mission STS-110 from Kennedy Space Center, Fla.

The new Block II Main Engines incorporate an improved fuel pump — featuring fewer welds, a stronger integral shaft/disk and more robust bearings — making them safer and more reliable, and potentially increasing the number of flights between major overhauls.

A single Block II Engine was successfully demonstrated in July 2001 on STS-104. The upcoming mission marks the first time the Shuttle will be powered by three of the new engines.

The Space Shuttle Projects Office at the Marshall Center, manages the main engines, the world's most sophisticated reusable rocket engine. The new turbopump, made by Pratt and Whitney of West Palm Beach, Fla., was tested at Stennis Space Center in Mississippi. Boeing Rocketdyne in Canoga Park, Calif., manufactures the Space Shuttle Main Engine.

Carruth named deputy of MP&M

Melvin Ralph Carruth has been appointed deputy manager of the Materials, Processes, and Manufacturing Department in the Engineering Directorate at the Marshall Center.

Carruth began his NASA career in 1978 as an engineer at the Jet Propulsion Laboratory in Pasadena, Calif. In 1981, he joined the Marshall Center as an aerospace engineer assigned to the Electronics and Control Laboratory. He has held a variety of progressively responsible positions, including chief of the Physical Sciences Branch, and chief of the Engineering Physics Division. His most recent position was lead of the Materials, Processes, and Manufacturing Department's Environmental Effects Group.

During his career, Carruth pioneered some of the earliest techniques for atomic oxygen interaction with material. He developed experimental techniques and obtained data on the plasma flow from ion engines that is still recognized in the technical and scientific community as benchmark data.

He has received numerous awards and special recognitions, co-authored more than 40 publications and is recognized internationally as an authority in the area of ion propulsion and the interactions of thrusters with spacecraft.

In 1975 he earned a bachelor's in physics from the University of Central Arkansas. In 1978 and 1989, he received master's degrees in physics from the University of Arkansas and the University of Alabama in Huntsville, respectively, with the latter focusing on theoretical physics.



Carruth

Center Announcements

2002 Earth Week activities

Earth Week activities will be held April 15-19, including recycling, environmental and energy exhibits will be in the lobby of Bldg. 4200; a logo contest, a spot-an-environmentalist contest and the tree-planting ceremony. Harvey Cotton, director of the Botanical Garden, will speak at the ceremony, which will be from 10-11 a.m. April 18 at the Wellness Center, Bldg. 4315. In case of inclement weather, the ceremony — with the exception of the tree planting — will be in the Morris Auditorium, same date and time.

Spot-an-environmentalist contest

Marshall employees and onsite contractors are asked to submit the names of employees they see who are assisting in keeping the Marshall Center environmentally friendly. Submit the employee's name and a short description of the environmental deed to justify the person's nomination via e-mail to: lucy.boger@msfc.nasa.gov or mail to AD21, Bldg. 4250, room 16B, no later than March 29. Entries will not be accepted after the closing date. Each nominee selected will receive a gift certificate from "Wild Birds Unlimited" at the tree-planting ceremony at 10 a.m. April 18 at the Wellness Center, Bldg. 4315.

Clubs and Meetings

MARS soccer league organizing

The MARS soccer league is looking for players interested in starting new teams or joining current teams. All Marshall team members are invited to participate. For more information call Andy Heaton at 544-3839.

Shuttle Buddies meet

The Shuttle Buddies will meet for breakfast at 9 a.m. March 25 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.

Spring dinner dance April 13

The MARS Ballroom Dance Club is hosting its spring dinner dance April 13 in the West Exhibit Hall of the Von Braun Center. The Buddy Chambers Combo will perform during an evening of dancing. Attire is semi-formal and tickets are \$17 for members and \$20 for guests. The evening begins with a social at 6:30 p.m. with dinner at 7 p.m. Dancing is from 8-11 p.m.. For more information, call 544-0563, 544-3998 or 544-3525. For table reservations, call Woody Bombara at 650-0200.

Property management group hosting 2002 training

The Marshall Center Property Management Group is hosting the National Property Management Association Rocket City Chapter on May 21 from 8 a.m. to 4 p.m. for spring 2002 training. The training is open to all Marshall team members associated with the National Contract Management Association, National Property Management Association, National Association of Purchasing Management or the International Facility Management Association. For more information, call Debie Grissom at 544-6572.

Miscellaneous

UNCF Gala

The 24th annual United Negro College Fund (UNCF) Gala, featuring Susan L. Taylor, senior vice president of Essence Communications Inc., will be at 6:30 p.m. March 28 at the Von Braun Center North Hall. Cost is \$75 general admission and \$25 for students. Entertainment will be provided by vocalist Phil Perry.

Easter Egg Hunt rescheduled

Marshall's annual Easter Egg Hunt will be at 2 p.m. March 23 at the picnic area. Call Gena Marsh at 544-0160 for more information. Please check MSFC information line at 544-HELP, Option 5, in case of inclement weather.

Weight management program offered

A weight management program will meet once a week for 16 weeks at the Wellness Center, Bldg. 4315. Exercise physiologist Lana Hart will teach the "LEARN" program and will host an orientation meeting Wednesday, March 27 from 9-10 a.m. Space is limited and priority is given to civil servants, who can take the class free of charge. On-site contractors are eligible for any remaining slots for a \$30 charge. For more information, call 544-3337.

Password changes to MIS3090 to take effect

Password synchronization and auto logon capability between MSFC mainframe host and IDS servers will be disconnected effective April 1 for security reasons. If you previously used auto logon or password synchronization, you will need to go directly to the NACC MIS3090 host. You also can access the URL <https://nacomm.nacc.nasa.gov/bluezone/mis/default.htm> or call 544-HELP, Option 0 for assistance.

Blue Cross/Blue Shield representative to visit

A Blue Cross/Blue Shield representative will be at Marshall to assist employees Wednesday, March 27, from 9-11 a.m. in Bldg. 4200, Room 329.

Internet maintenance set March 23 at Marshall

Network maintenance at Marshall is March 23 from 8 a.m.-8 p.m. All network traffic in-bound and out-bound at Marshall will be unavailable during this time. All remote access service will be unavailable. Local network services also could be affected. Call 544-HELP, Option 7 for more information.

Job Announcement

AST, Technical Management GS-0801-14 in the Space Transportation Directorate, Program Planning and Development Office, Development Projects Group. Closes April 3, 2002.

Employee Ads

Miscellaneous

- ★ Heavy wooden dining table and three padded chairs, \$60; new baseboard heaters, three sizes. 837-6776
- ★ Vacuum cleaners: Hoover, 7.2 amp runabout; Dirt Devil 9.5 amp; extra belts and bags, \$20 each. 881-7953
- ★ E.A. chair, \$25; rocking love sat, \$75; upright piano, \$250. 723-4384
- ★ Longaberger basket doll cradle, \$350. 828-8005
- ★ Snapper riding mower, rear engine, 10HP engine, 30" deck, \$325. 722-2146
- ★ Rattan furniture; 2 chairs, sofa, with cushions, table, \$150. 883-2948
- ★ Kimball console piano, \$500. 772-2332
- ★ Cream floral traditional sofa, \$150. 883-7088
- ★ Mini bike, 6HP, torque converter drive, disc brake, large knobby tires, \$425. 774-5716
- ★ Couch, brown stripe pattern, \$90; solid oak rocking chair with pads, \$50. 721-9005
- ★ Radio controlled model airplane, 8-channel Futaba radio and OS46 engine, \$350. 527-5247
- ★ Nintendo 64, rumble-pack, memory card, expansion card, 2 controllers, 15 games, all cables, \$60. 772-4460
- ★ Sears treadmill, digital console, fold up, adjustable speed and incline, \$195. 682-5181
- ★ Matching almond washer & dryer, X-large capacity, \$100; hybrid king-size water mattress w/heater, \$35; 24" high wooden platform, \$45. 828-6213
- ★ Chifforobe, early 1940's, 3 mirrored cabinets, 5-drawers. \$200; 1974 Ford FMX transmission, \$50. 464-3300
- ★ 300Mhz Gateway PC with 64Mb RAM & 4Gb disk space, 17" color monitor, \$275. 882-1779
- ★ Wheel Horse Toro riding mower, 12.5 HP, 37" deck, hydro-transmission, 334 hrs., \$800. 830-6584

Vehicles

- ★ 1997 Nissan Altima GXE, 78K miles, white, 5-speed, sunroof, spoiler, cruise, AM/FM,

\$6,800 obo. 883-1874

- ★ 1996 Chevy S-10 pickup, X-cab, A/T, PB/PS, cruise, 6' bed, a/c, AM/FM cassette, 4 cyl., 83K miles, \$7,250. 256-882-2400
- ★ 2001 Chevrolet S-10, red, 4-cyl, a/c, ps, 5-speed, cruise, bedliner, 18K miles, \$9,500. 256-536-6921
- ★ 1994 Plymouth Voyager, blue, PDL, cruise, dual air bags, 141K miles, original owner, \$2,500. 828-5077
- ★ 1997 Ford F-150 XLT, flare side, V6, 5-speed, regular cab, white, 24K miles, \$11,900. 256-232-1731
- ★ 1996 Jeep Grand Cherokee Laredo, Alpine CD/Stereo, \$6,995. 721-0042
- ★ 1991 Volvo 240, full size, 4-door, AT w/electric OD, PW/PL, ABS, maintenance records. 533-0651/leave message
- ★ 1999 Ford F150 XL, step-side, 45K miles, bright red, bed cover, customized, chrome wheels, CD player, auto, \$14,500. 777-4416
- ★ 1999 Camry LE, loaded w/leather take over lease payments, 18 payments at \$331 each. 837-5035
- ★ 1998 Z71 extended cab, loaded, all options. 539-1408
- ★ 1989 S-15 GMC Jimmy, Gypsy package, 4.3L, 4WD, black/blue, 218K miles, \$1,950. 837-6517
- ★ 1990 VW Golf GL, 220K miles, \$1,000 negotiable. 461-9776
- ★ 1987 Trans AM, new wheels, paint, brakes, shocks, 100K miles, \$2,700 obo. 256-536-2433
- ★ 2000 Ford Windstar LX, power, CD, V6, 33K miles, \$15,500. 256-721-3580
- ★ 1997 Ford Explorer XLT, V8, white w/tan power leather seats, towing pkg., JBL sound, PW/PL, new Michelin tires, 97K miles, \$14,475. 895-8306
- ★ 1994 Sable GS sedan, 3.0, V6, automatic, all-power, maroon exterior & interior, 121K miles, \$3,200. 776-6943
- ★ 1985 BMW 528e, 125K miles, garaged, \$3,500. 461-0482
- ★ 2001 Jetta TDI, fully loaded, low mileage, \$17,500. 289-7776/430-3184
- ★ 1990 Jeep Cherokee, 4WD, 77K miles, all-power, CD, security system, new tires, many options, \$5,500. 883-6416

- ★ 1999 Toyota Avalon XL, leather, all-power, sunroof, side airbags, CD/cassette, 59K miles, champagne, \$17,000. 880-9025
- ★ 2001 Ford Taurus SE, 4-door, metallic gold, loaded, 18K miles, \$13,500. 256-536-6921
- ★ 1991 Pontiac Grand Prix SE, red, automatic, loaded, 139K miles. 828-2643
- ★ 1997 Pontiac Firebird, convertible, black, auto, all-power, CD changer, 35K miles, \$11,500. 256-325-1490

Found

- ★ Gold earring, NW parking lot of Bldg. 4203. Call 544-5428 to identify

Wanted

- ★ Toyota Camry, Honda Accord or Civic; 96-99, less than 70K miles, automatic, no wrecks. 883-2757
- ★ TV, 19"-21", reasonably priced, not more than 4 yrs. Old, preferred Toshiba or Sony. 256-457-9940
- ★ First day issue stamps. 881-6595
- ★ Dogloo, cage, pet carrier, and other equipment for large (75 lb.) dog. 233-4680
- ★ Used swing/play gym for 19 month old grandchild, excellent condition, reasonable. 859-1426
- ★ Road bike, 52-54 cm or 21", prefer 700c tires. 527-5247
- ★ Nanny, part-time childcare worker for infant, 8 hours per, 3 days per week. 464-6928

Free

- ★ Siamese cat, spayed/declawed, no pets or small children, needs loving home. 658-2471
- ★ Spayed female indoor cat, affectionate, about 4 yrs. old, needs a good home. 883-0281

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